



Utah Department
of
Natural Resources

2018 Annual Report



Photo by Mike Berg, Parowan P.D.

2018 Directory of Services and
Annual Report for 2016-2017



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Division of Water Resources

Division of Water Rights

Division of Wildlife Resources

Utah Geological Survey

NATURAL RESOURCES

DEPARTMENT UPDATE

Tomorrow's Needs
Require Attention Today



Utah Department of Natural Resources



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naturalresources.utah.gov

Monday – Friday
8:00 a.m. – 5:00 p.m.
(closed on holidays)

Executive Team



L to R: Darin Bird, Robyn Pearson, Kaelyn Anfinen, Mike Styler, Nathan Schwebach

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Administrative Team



L to R: Tyler Thompson, Wade Kloos, Paul Gedge, Henry Maddux, Roger Lewis, Mike Tribe, Bill Boudreau (not pictured: Sid Groll)

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Online Resources

Employment
hr.utah.gov/adm/admhr.htm

Twitter
[@UtahDNR](https://twitter.com/UtahDNR)

Facebook
facebook.com/UtahDNR

YouTube
youtube.com/UtahDepartmentofNaturalResources

Executive Director's Commitment

The Utah Department of Natural Resources was created 50 years ago, when just one million people called Utah home. Today Utah is home to over three million residents; with the expectation that our population will double in the next 40 years. Such unprecedented growth will need to be met through forward-thinking leadership and sound planning.

We live in an age where it takes time – sometimes decades – to get things done. As a result we don't have time to pass our challenges on to the next generation. Instead, meeting tomorrow's needs and opportunities requires our attention today. Our best thinking is needed now. Our best problem solving and our best planning are required today.

With the help of key stakeholders and the support of elected officials, DNR is committed to seeking solutions to tomorrow's challenges and we're taking action today.

- ♦ We have accelerated our water adjudication efforts, which will bring more clarity and certainty to Utah's unique water challenges.
- ♦ We remain committed to responsible water development, which includes increased water conservation efforts; improvements to existing systems through efforts like metering secondary water systems; better water data gathering and responsible water development where necessary.
- ♦ We are aggressively improving existing infrastructure of our world-class state parks and expanding recreational opportunities to meet the needs of a growing population.
- ♦ We are proactively managing critical watersheds for the benefit of water runoff, wildlife and fire prevention and to combat invasive species and support sensitive species.
- ♦ We're finding innovative solutions to combat catastrophic wildfires and continue our work to advance efforts that emphasize proactive wildfire risk reduction at the local level.

By working together and in harmony with our partners and elected leaders, we will meet tomorrow's demands; and we'll do it in a way that protects our natural resources and maintains the quality of life we enjoy.



Michael R. Styler
DNR Executive Director

Department Accomplishments

- ◆ DNR opened its fourth and final regional office in Richfield. Regional offices allow the department and its divisions to centralize services, save money and improve functionality. The structure also allows for better collaboration between divisions and partners.
- ◆ SB 113 gave the Division of Water Rights the funding it needs to cut the adjudication of the Utah Lake/Jordan River area from 100 years to 10-12 years. The funding was the last of three steps needed to speed up Utah's adjudication process.
- ◆ Progress continues to be made on two future water development projects designed to help Utah meet population growth.
 - The federal government is currently reviewing license application documents of the Lake Powell Pipeline. The project is preparing to enter the federal environmental review phase.
 - The Bear River Development remains early in the feasibility study phase. Because of water conservation, development of other resources and agricultural conversion, recent estimates show the need for the project can be pushed out to about 2040.
- ◆ Outdoor recreation is thriving. Visitation at Utah State Parks is up about 15 percent. State Parks continues to improve infrastructure and recreational opportunities, like cabins at Willard Bay, hammock camping at East Canyon and the addition of Island Aqua Park at Deer Creek. A significant infrastructure investment is planned for 2018.
- ◆ The Abandoned Mine Reclamation Program, which increases public safety by closing old mine openings and cleaning up waste, completed 167 non-coal closures and three coal reclamation projects, including stream construction and coal refuse burial.
- ◆ Progress continues on a new regional wildlife center in Springville, which is scheduled for 2018.

Department Goals

- ◆ Enhance the customer experience. Positive relationships with DNR customers come first.
- ◆ Improve cross-division collaboration. Committed toward increasing efficiency and maximizing resources.
- ◆ Increase value department wide. Maximize taxpayer resources and decrease general fund reliance.

DNR Annual Employee Award Winners

Executive Director's Award

Steve Schneider, Division of Oil, Gas and Mining (left)
Rick Webster, Division of Water Resources (right)



Steve frequently deals with last minute requests from management and the Legislature and always meets those demands in a timely and professional manner. Steve is a forward thinking, proactive problem solver who often identifies issues before they arise.

Rick turns water conservation from a daunting task to something doable and fun. His exciting and memorable presentations are priceless, and his relationships with the public and colleagues vastly increase the impact that he has on water conservation in Utah.

Employee of the Year

Eric Klotz, Division of Water Resources



Eric has been instrumental in educating millions of people about the importance of water conservation. He has formed strategic partnerships with conservancy districts, counties, cities and other water entities to advance conservation messaging. While all of this has been done on a very small budget, there has been tremendous growth through efficiency.

Leadership Award

Blake Bingham, Division of Water Rights



Blake has looked to advance the adjudication process by providing opportunities to staff and successfully streamlining the process that has at times frustrated generations of engineers and attorneys. His innovative thinking has allowed the adjudication team to accomplish intensive filed work in a relatively short amount of time.

Community Outreach

Paul Thompson, Division of Wildlife Resources



Paul proactively works to build relationships by engaging directly with stakeholders. He participates in media opportunities and makes himself available for expos, trade shows, and commission meetings and coordinates efforts with partners that have similar goals. His role in Utah's Native Trout Cutt Slam has helped the program raise over \$14,000 for native trout conservation.

Organizational Chart

Gary R. Herbert
Governor

Michael Styler
Executive Director

Darin Bird
Deputy Director

Robyn Pearson
Deputy Director

Divisions

Utah Geological Survey
Water Resources
Parks and Recreation

Divisions

Forestry, Fire and State Lands
Oil, Gas and Mining
Water Rights
Wildlife Resources

Administration

Community Outreach
Congressional Liaison
Legislative Team
Recovery Program
Public Information

Administration

Human Resources
Technology Services
GIS

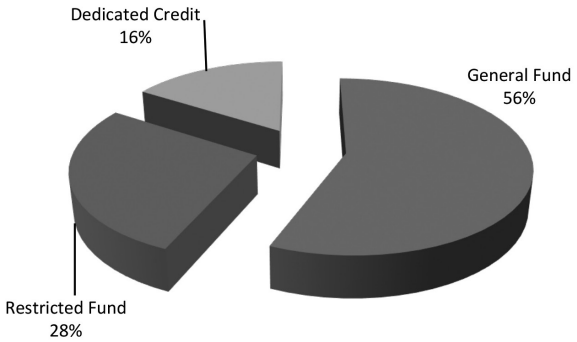
Roger Lewis
Finance Director

Sidney Groll
Law Enforcement
Director

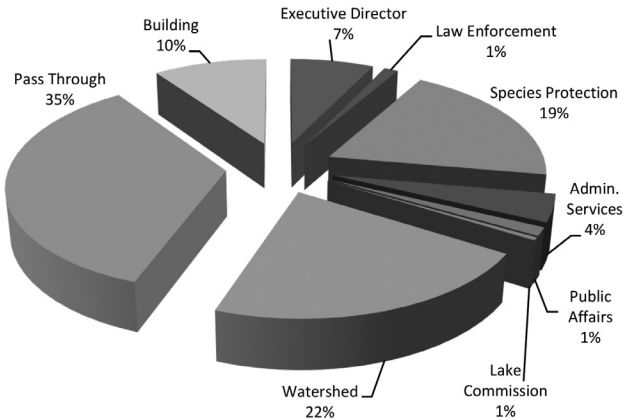
Financials

**Fiscal Year Ending
June 30, 2017
(Unaudited)**

**Revenue
\$18,355,900**



**Expenses
\$18,355,900**



NATURAL RESOURCES

DIVISION UPDATES



FORESTRY



OIL, GAS & MINING



STATE PARKS



WATER RESOURCES



WATER RIGHTS



WILDLIFE



GEOLOGICAL SURVEY

Utah Division of Forestry, Fire and State Lands (FFSL)

Mission Statement:

"The Division of Forestry, Fire and State Lands manages, sustains and strengthens Utah's forests, rangelands, sovereign lands and watersheds for its citizens and visitors."



Lone Peak Hotshots in heavy smoke waiting for a helicopter to cool the line.

Utah Division of Forestry, Fire and State Lands



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Executive Team



L to R: Jason Curry, Stacy Carroll, Brian Cottam, Whitney Norton, Cornell Christensen

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Director's Commitment

What a great time it is to be at DNR and the Division of Forestry, Fire and State Lands. DNR celebrated it's 50th anniversary this past year, the Division is now in it's 23rd year and our work and employees just keep getting better and better!

From our Forestry to Fire Management to Sovereign Lands programs, the Division's approximately 110 year-round, full-time employees--with more than twice that number when our seasonal firefighters are on staff--all work diligently to manage, conserve and restore lands across Utah. It is an ethic derived from decades of history and one we strive to ensure continues for years to come.

Whether it's at the State Office in Salt Lake City, one of our six Area offices—Cedar City, Heber, Logan, Moab, Richfield and Salt Lake—or the Lone Peak Conservation Center, our FFSL staff is outstanding and constantly seeking to improve. Their commitment to productivity and quality outcomes is leading to healthier, more resilient lands in Utah -- now and into the future.



Brian Cottam
Division Director / State Forester

Division Accomplishments

Forestry

- ♦ Forest stewardship plans were written and approved for 14 private forestland owners. This is the highest number of plans for a single year in the Division's history.
- ♦ The creation and wide distribution of a new urban tree inventory app has led to an ever-growing database of now nearly 70,000 trees submitted by more than 50 communities. This easily accessible digital app provides information and data never before seen in Utah, which allows urban foresters to better plan for and manage urban trees and community forests across the state.
- ♦ Utah is now home to a record-number 16 national champion Big Trees!

Wildfire

- ♦ The Division's new comprehensive, statewide wildland fire management system--often referred to as "fire policy" during the three-year collaborative planning process and unanimously passed by the Utah Legislature during the 2016 session--is in effect as of January 1, 2017. At the end of FY17, all 29 counties and numerous municipalities and special service fire districts have signed the Cooperative Agreement. These "participating entities" are now partners in one of the most progressive wildfire management systems in the country, focused on fire risk reduction through prevention, preparedness and mitigation at the local level.
- ♦ The Division's new, state-of-the-art and fully automated fire business management system (FBS) is now operational. The on-line FBS streamlines the business of fire--including billing, reporting and reconciling of wildland fire costs--and greatly improves the accuracy and efficiency of increasingly complex wildfire accounting and reporting. FBS is now gaining the attention of states across the West, and the Division is pursuing opportunities to share this highly innovative system with other state fire management agencies.

State Lands

- ♦ The Sovereign Lands Program completed the first-ever comprehensive management plan (CMP) for the Jordan River in early 2017, is in the process of developing the first-ever Bear River CMP, and will soon start work on the Green and Colorado River CMPs. Completion of these sovereign lands CMPs are major milestones for the Division.
- ♦ The Division treated more than 3,100 acres of invasive species, including Phragmites, on sovereign lands across the state.
- ♦ Collaboration with the DNR divisions of Wildlife Resources and State Parks and Recreation resulted in the acquisition and development of a cutting-edge land lease database and management system. This advanced digital system significantly improves staff efficiency as well as information accessibility for our partners and the public.



A member of the Lone Peak Hotshots on the line at the Tank Hollow Fire.

Forecast

Major policy and management issues for the Division in the coming year include:

- ♦ Watershed protection and forest health.
- ♦ Increased management and control of invasive species and noxious weeds (e.g., phragmites).
- ♦ Impacts and improvements to Utah's urban and community trees and forests.
- ♦ Development in the wildland/urban interface and reducing associated wildfire risk.
- ♦ Forecasts for larger and more intense wildfires with unprecedented, erratic fire behavior.
- ♦ Paying for wildfire risk reduction, suppression and rehabilitation costs.
- ♦ Implementation of the State's new wildland fire management system with local government.
- ♦ Utilization of woody biomass to offset the cost of fuels reduction and wildfire mitigation work.
- ♦ Increasing complexity and demands of sovereign lands management.
- ♦ Decreasing water levels at Great Salt Lake and Utah Lake and resulting public impacts.
- ♦ Increasing litigation, such as the pending Weber River lawsuit.

As a Division, we look forward to working on and finding solutions to these challenges for the benefit of all Utahns.



A sawyer cuts into a large tree on the Brian Head Fire.

Key Services

Forestry

Manage the State's cooperative forestry programs, including Forest Stewardship, Forest Health, Forest Legacy, and Urban & Community Forestry. Administer the State's Forest Practices Act, including forest practices notifications and operator registry, and implement Utah's Forest Action Plan.

Wildland Fire

Responsible for wildfire management and suppression on Utah's state and private lands in partnership with county and municipal government. Along with suppression, wildfire risk reduction through prevention, preparedness and mitigation efforts at the local level is emphasized, including wildfire suppression training, volunteer fire department grants, community wildfire preparedness planning, and coordination of the Governor's Catastrophic Wildfire Reduction Strategy and National Cohesive Wildfire Management Strategy.

Lone Peak Conservation Center (LPCC)

Provides the State's wildland fire resources, including highly trained crews to both fight wildfires as well as undertake natural resource projects, such as fuels reduction. LPCC is proudly the home of both the Lone Peak and Alta Hotshot crews, making Utah one of only two states that hosts these highly-trained and specialized wildfire suppression resources.

Sovereign Lands

Administers public, private and commercial uses of State-owned lakebed and riverbed lands in accordance with the public trust doctrine and principles of multiple use and sustained yield. State sovereign lands include the beds and shorelines of Bear Lake, Great Salt Lake, Utah Lake, Jordan River and portions of the Green and Colorado rivers.

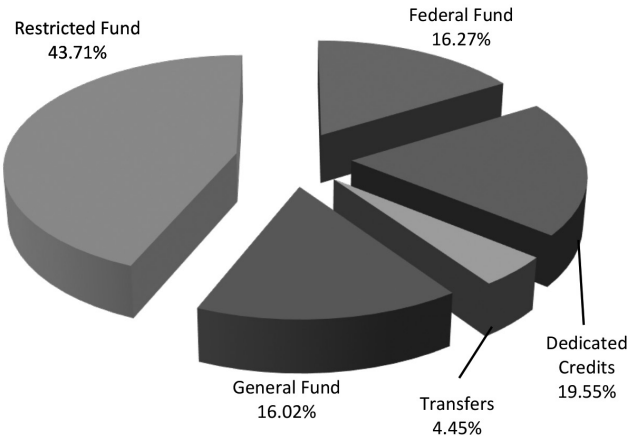


Southwest Area Manager, Ron Wilson speaking to firefighters at the Brian Head Fire.

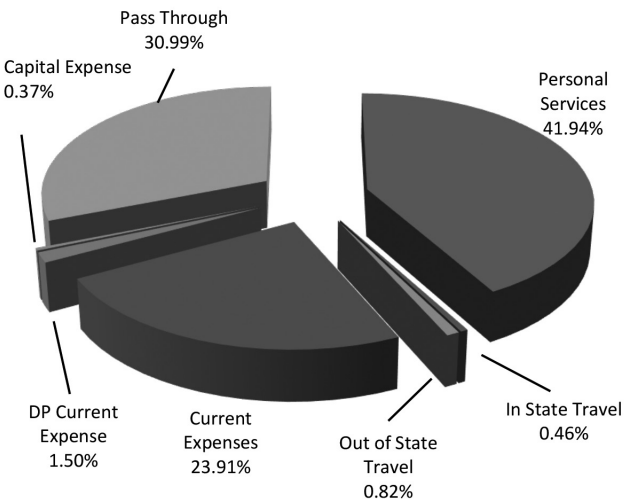
Financials

**Fiscal Year Ending
June 30, 2017
(Unaudited)**

**Revenue
\$28,275,905**



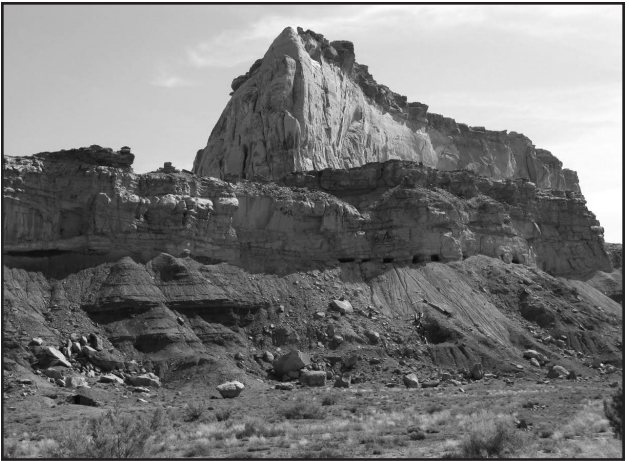
**Expenditures
\$28,275,905**



Utah Division of Oil, Gas and Mining (OGM)

Mission Statement:

"The Division of Oil, Gas and Mining regulates and ensures industry compliance and site restoration while facilitating oil, gas and mining activities."



The Abandoned Mine Reclamation Program closed 173 abandoned uranium mine openings in the San Rafael Swell.

Utah Division of Oil, Gas and Mining



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Regional Offices

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Vernal Office

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435-247-1539

Online Resources

Website

ogm.utah.gov

Mining Permits

ogm.utah.gov/coal/permitting.html

Oil Drilling Permits

oilgas.ogm.utah.gov/oilgasweb/quick-refs/q-refs-permits.xhtml

Facebook

facebook.com/utahoilgasandmining

Twitter

@UtahOGM

Director's Commitment

The legislative purpose statements for each of the Division's regulatory programs specify that citizens of Utah should derive the greatest possible good from the development of the state's oil, gas, coal and mineral resources. It also states that the Division should ensure developers minimize the undesirable effects of such development, which is the basis for the Division's three-fold objective to: (1) foster responsible development for valuable economic benefit; (2) protect the public health and safety from the adverse impacts of development; and (3) preserve the environment for the quality of life of future generations.

One concept often overlooked when collaborating with government and industry partners is the need for adequate infrastructure for transporting resources to the consumer. Infrastructure in the form of pipelines, processing facilities, roads and rail terminals must be constructed and maintained in order to accrue value for producing energy and mineral resources.

As Utah's population continues to grow, there will be a corresponding increase in the demand for energy and minerals. Conservation and demand-side management will help alleviate a portion of these needs, but even conservation may not keep up with society's growing appetite for electronics, metals, chemicals, energy, building materials and minerals. An expanding need for these commodities of life will create a need for additional infrastructure.

Although the challenge is great, the Division intends to maintain its primary mission and facilitate solutions for infrastructure development through:

- ♦ Providing analysis and opinion regarding policy, both on mineral production topics and infrastructure development, for land access and planning for development.
- ♦ Contributing information to major research projects on shale gas development, hydraulic fracturing, induced seismicity, natural gas storage, and produced water use and re-use.
- ♦ Engaging in discussions with lawmakers regarding financial assurance for reclamation liabilities, ongoing protections from the hazards of legacy abandoned mines, and the policy interplay among federal, state, county and municipal governments.
- ♦ Collecting and disseminating accurate and timely public data.



As the needs of Utahns must continually be addressed into the future, the Division strives to be innovative and visionary to plan not just for the immediate future, but also for the quality of life of future generations.

John R. Baza
Director

Division Accomplishments

Coal

Coal Program staff processed time-sensitive permit changes to allow continued operations at a number of coal mines requiring extraordinary effort and staff hours.

Permit approval was granted for the expansion of the Flat Canyon Lease at Skyline Mine; expansion of areas 2 and 3 at the Coal Hollow Mine; Emery Deep Mine additional Phase II permit; expanded waste rock sites at Sufco and Dugout Canyon mines; pipeline construction for post-mining water discharge at Deer Creek Mine.

Oil and Gas

The Oil and Gas Program implemented a new database system June 2017, a project that took nearly four years to complete. The database replaces outdated information with newer technology and functions.

Data management is a critical element to the success of the program as it helps track all well data, production, injection, inspection, and compliance information. Over 16,000 wells and facilities statewide create a tremendous amount of data accessed daily by entities including federal, state and county governments. In addition, this data is critical to operators who use the records for exploration research and by the general public who may want information on wells and activities in their area.

Staff updated current policies and procedures and drafted the Division Standard Operating Procedures, which includes documents guiding staff through a multitude of program processes. These procedures are utilized as training material for new employees, as well as references for field staff.

Staff also developed Guidance Documents for operators and stakeholders to use in an effort to reduce many of the variable interpretations of Division Statutes that have occurred in the past. Staff identified several hot topic issues including spills and reclamation activity and developed documents to aide operators with such events.



The screenshot displays the Utah Oil and Gas database interface. At the top, there's a header with the Utah Oil and Gas logo and navigation links. Below the header, there's a search bar and a table of production data for 1984. The table has columns for Year, County, Oil (BBL), Natural Gas (MCF), and Water (BBL). The data is filtered for the year 1984 and shows production for various counties including Carbon, Daguerre, Emery, Duchesne, Garfield, Grand, San Juan, Summit, Uintah, and Carbon.

Year	County	Oil (BBL)	Natural Gas (MCF)	Water (BBL)
1984	CARBON	0	308527	503
1984	DAGUERRE	4959	2910970	1887
1984	EMERY	154112	340588	14789
1984	DUCHESNE	9972495	18676036	17127058
1984	GARFIELD	492464	0	13296380
1984	GRAND	204152	9638814	58813
1984	SAN JUAN	8036387	29579802	36483623
1984	SUMMIT	14872836	351198895	4155064
1984	UINTAH	5279756	33844025	48342275
1985	CARBON	196	227296	2146

The Oil and Gas Program launched a new database with improved technology and functions.

The development of Standard Operating Procedures and Guidance Documents is an ongoing project within the Oil and Gas Program that will be updated as additional policies and processes are identified and developed.

Abandoned Mine Reclamation

The Division's Abandoned Mine Reclamation Program (AMRP) received an award for work completed in the San Rafael Swell in central Utah. The program was completed in partnership and mostly funded by the Bureau of Land Management. The National Association of Abandoned Mine Land Programs (NAAML P) publicly recognized Utah for the exemplary physical safety hazard mitigation in the reclamation of abandoned hard rock mines and presented them the nation's highest achievement at its annual conference in Bozeman, Montana. Steve Fluke, AMRP Manager attended the banquet and accepted the award.

The San Rafael Swell project in central Utah closed 173 abandoned uranium mine openings remaining from the Cold War era. The openings were located high in cliff faces often with no road access, so the contractor enlisted helicopters, all-terrain vehicles (ATV), pack horses and a great deal of ingenuity to get supplies and labor to the sites. In addition to the tricky terrain, radiation safety protocols, designated wilderness areas, and bighorn sheep lambing added to the logistical complications.

The San Rafael Swell is located on public land and is a popular destination for outdoor recreation including camping, hiking and ATV riding. The completion of the project has safeguarded all known uranium mine openings in the area to protect the public's health and safety in this popular region.



OGM Project Manager/Archaeologist Jessica Montcalm and Abandoned Mine Reclamation Program Manager Steve Fluke accept the NAAML P award.

Minerals

Division staff identified several public safety and environmental hazards at the Tintic mine complex, a historic group of four underground heavy metal mine shafts near Eureka. The Utah Board of Oil, Gas and Mining approved an agreement allowing Chief Consolidated Mining Company to operate on the condition that several clean up actions were performed to remediate these haz-

ards. Chief has been working diligently to cover open mine shafts, remove petroleum products and hazardous chemicals, and unstable buildings. Staff will continue monitoring this site to ensure health and safety regulations continue to be implemented.

Forecast

Oil prices continue to fluctuate, creating challenges for the Division. The Oil and Gas Program is funded by monies generated from a conservation tax, which is two-tenths of one percent (.002). The budget cannot be sustained by low, unstable oil prices, but instead alternative funding options should be investigated allowing the Division to be more self-sufficient.

Recent commodity prices have been a challenge for many sectors of the mining industry in Utah, but the mining industry remains cautiously optimistic about the future. Staff will continue to ensure responsible resource development and reclamation by working collaboratively with operators.

Key Services

Oil and Gas

Permits, inspects and monitors oil and gas wells statewide. Staff maintains a database of information regarding ownership, production, disposition and status of oil and gas exploration, production wells and facilities.

Coal and Mineral Permitting

Issues permits to and monitors coal and mineral mining operations to ensure compliance with federal laws and regulations.

Abandoned Mine Reclamation

Identifies abandoned mines and permanently seals off access to reduce accidents and hidden hazards. Division staff also provides outreach programs to schools and communities educating the public about the dangers of abandoned mines.



Looking out from a uranium mine portal as workers weld a rebar gate closure.

Utah Board of Oil, Gas and Mining



L to R back row: Michael R. Brown, Ruland J. Gill, Gordon L. Moon, Chris D. Hansen; L to R front row: Board Secretary Julie Ann Carter, Board Attorney Mike Johnson, Susan S. Davis, Carl R. Kendell, Richard K. Borden

Ruland J. Gill, Jr.,
Chair
Oil and Gas, Bountiful

Richard K. Borden
Mining, Salt Lake City

Carl R. Kendell
Geology, Salt Lake City

Chris D. Hansen
Mining, Highland

Susan S. Davis
Oil and Gas, Bountiful

Michael R. Brown
Environmental, Kaysville

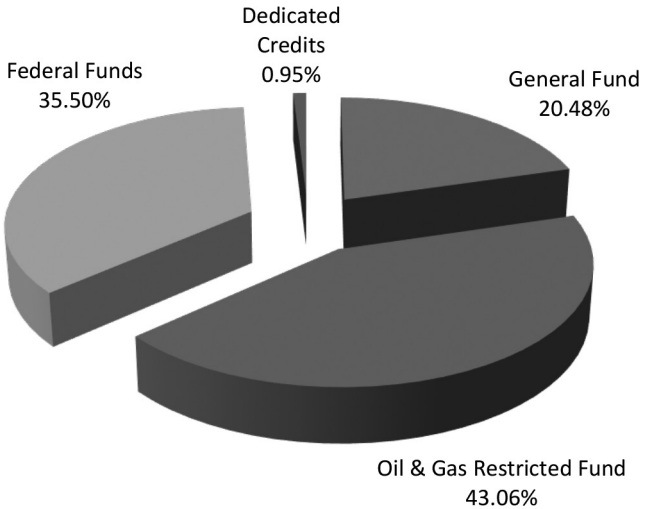
Gordon L. Moon
Royalty Interests, Duchesne

Julie Ann Carter
Board Secretary
801-538-5277

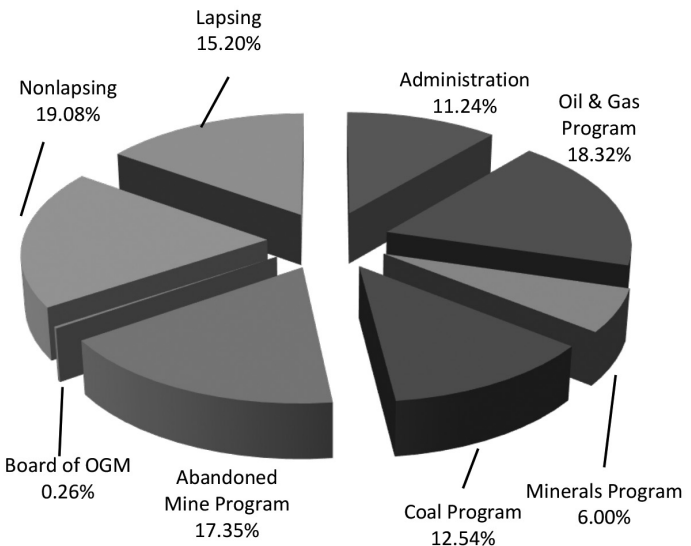
Financials

**Fiscal Year Ending
June 30, 2017**
(Unaudited)

Revenue
\$14,695,334



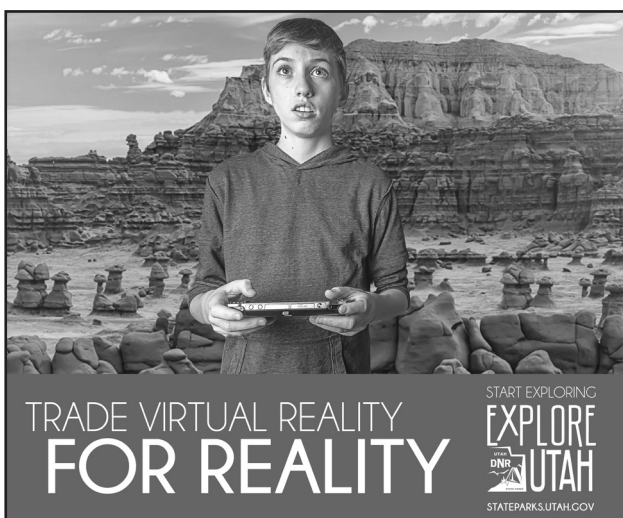
Expenditures
\$14,695,334



Utah Division of Parks and Recreation (UPR)

Mission Statement:

"The Division of Parks and Recreation preserves and provides natural, cultural and recreational resources for the enjoyment, education and inspiration of this and future generations."



Explore Utah promotional campaign.

Utah Division of Parks and Recreation



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Executive Team



L to R: Eugene Swalberg, Jeff Rasmussen, Fred Hayes, Wendy Wack, Scott Strong (not pictured, Eric Stucki)

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Regional Offices

North Region

Dave Harris, Region Manager
1084 North Redwood Road
Salt Lake City, UT 84116-1555
801-533-5127

Southeast Region

Megan Blackwelder, Region Manager
1165 South Highway 191, Ste.7
Moab, UT 84532-3062
435-259-3750

Southwest Region

Wayne Monroe, Region Manager
646 North Main Street
Cedar City, UT 84721
435-586-4497

State Parks and Museums

Anasazi State Park Museum

Mike Nelson, Park Manager
435-335-7308

Antelope Island State Park

Jeremy Shaw, Park Manager
801-773-2941

Bear Lake State Park

Richard Droesbeke, Park Manager
435-946-3343

Camp Floyd/Stagecoach Inn State Park and Museum

Mark Trotter, Park Manager
801-768-8932

Coral Pink Sand Dunes State Park

Michael Franklin, Park Manager
435-648-2800

Dead Horse Point State Park

Crystal White, Acting Park Manager
435-259-2614

Deer Creek State Park

Steve Bullock, Park Manager
435-209-1151

East Canyon State Park

Chris Haramoto, Park Manager
801-829-6866

Edge of the Cedars State Park Museum

Chris Hanson, Park Manager

435-678-2238

Escalante Petrified Forest State Park

Kendall Farnsworth, Park Manager

435-826-4466

Flight Park State Recreation Area

Drew Patterson, Park Manager

435-703-0333

Fremont Indian State Park and Museum

Kevin Taylor, Park Manager

435-527-4631

Frontier Homestead State Park Museum

Todd Prince, Park Manager

435-586-9290

Goblin Valley State Park

Aaron Farmer, Park Manager

435-564-3633

Goosenecks State Park

Chris Hanson, Park Manager

435-678-2238

Great Salt Lake State Park Marina

David Shearer, Harbor Master

801-250-1898

Green River State Park

Aaron Farmer, Park Manager

435-564-3633

Gunlock State Park

Laura Melling, Park Manager

435-628-2255

Historic Union Pacific Rail Trail State Park

Mountain Trails Foundation

435-649-6839

Huntington State Park

Jonathan Hunt, Park Manager

435-687-2491

Hyrum State Park

Chris Bradshaw, Park Manager

435-245-6866

Jordan River OHV State Recreation Area

Nick Ware, Park Manager

801-809-0833

Jordanelle State Park

Laurie Backus, Park Manager
435-649-9540

Kodachrome Basin State Park

Jon Wikan, Park Manager
435-679-8562

Millsite State Park

Jonathan Hunt, Park Manager
435-687-2491

Otter Creek State Park

Michael Franklin, Park Manager
435-624-3268

Palisade State Park

Shon Tripp, Park Manager
435-835-7275

Piute State Park

Michael Franklin, Park Manager
435-624-3268

Quail Creek State Park

Laura Melling, Park Manager
435-879-2378

Red Fleet State Park

Mike Murray, Park Manager
435-789-4432

Rockport State Park

Tony Santora, Park Manager
801-712-3420

Sand Hollow State Park

Laura Melling, Park Manager
435-680-0715

Scofield State Park

Jonathan Hunt, Park Manager
435-448-9449

Snow Canyon State Park

Kristen Comella, Park Manager
435-628-2255

Starvation State Park

Alan Spencer, Park Manager
435-738-2326

Steinaker State Park

Mike Murray, Park Manager
435-789-4432

Territorial Statehouse State Park Museum

Carl Camp, Park Manager

435-743-5316

This Is The Place Heritage Park

Ellis Ivory, Foundation Director

801-582-1847

Utah Field House of Natural History

State Park Museum

Steve Sroka, Park Manager

435-789-3799

Utah Lake State Park

Jason Allen, Park Manager

801-375-0731

Wasatch Mountain State Park

Tracy See, Park Manager

435-654-1791

Willard Bay State Park

James Morgan, Park Manager

435-734-9494

Yuba State Park

Cheston Slater, Park Manager

435-758-2611

Online Resources

Website

stateparks.utah.gov

Boating Safety:

stateparks.utah.gov/boating

Camping Reservations:

stateparks.utah.gov/reservations

Off-Highway Vehicles:

stateparks.utah.gov/ohv

Facebook:

facebook.com/utahstateparks

facebook.com/UtahStateParksBoatingProgram

facebook.com/UtahStateParksOffHighwayVehicleProgram

Twitter:

[@UtahStateParks](https://twitter.com/UtahStateParks)

Director's Commitment

From the azure blue waters of Bear Lake State Park on the north, to the glowing Coral Pink Sand Dunes State Park on the south, Utah is awash in spectacular parks and recreation destinations. These beautiful sites provide opportunities for Utah's families and visitors to find fun and relaxation in some of the most gorgeous venues on earth.

During the past year, millions of visitors have found their way to Utah's 43 state parks looking for adventure and relaxation. As they return home and share their experiences with friends and neighbors, they too make their way to the parks. In fact, over the past several years, Utah's state parks have seen double digit increases in visitation each year, with a near doubling of the number of visitors since 2011.

While it is great to have so many people enjoying the opportunities available in the parks, this increase has had a toll on park infrastructure. Many of our park facilities were designed and built in the 1960s and 1970s. Today, as we celebrate 60 years of state parks in Utah, those same facilities are showing their age.

In order to plan for the future of Utah's state park system, we have begun a capital renovation initiative that will help to enhance and upgrade the facilities that make our state parks comfortable and safe. We recognize that future infrastructure and opportunity requires attention today. Over the next few years, visitors to Utah's state parks will see existing facilities being upgraded, and new facilities being constructed to accommodate an ever increasing customer base. We will be making much needed improvements in nearly every park in the system. We will see new opportunities for park enjoyment emerge, and

we will see our parks continue to offer clean, safe and friendly services and accommodations.



Please pardon our dust!

Fred Hayes
Director



Division Accomplishments

- ♦ Visitation and revenue increased again for the Division of Parks and Recreation in the fiscal year 2017. By adding amenities, activities and events at our Utah state parks and in the programs (OHV program and Boating program) the fiscal year 2017 revenue is up 16 percent from last year's record growth.
- ♦ Our employees continue to be there when the recreating public needs help. This past Spring park ranger Jeff Arbon was presented the Governor's Award for Excellence for saving the life of a bicyclist suffering from heat exhaustion on a remote trail in the Moab area.
- ♦ Several million dollars were spent at Jordanelle State Park on a shared project funded by the Division of Parks and Recreation and the US Bureau of Reclamation. Park entrance lanes were improved, parking added, boat storage was expanded and beautiful beach sand was brought in all to increase capacity to accommodate more visitors and to improve their experience when visiting the park.
- ♦ We now have three state parks who have received International Dark Sky designation and many more that are slated to receive the same designation by the end of 2017. This designation has brought in 100's of new visitors to our parks during the evening hours, many coming in from out of state to take advantage of our dark-sky programs.
- ♦ A new campground and yurts are being constructed and will open to the public in August, 2017 at Dead Horse Point State Park. This new development will significantly expand capacity at this popular park which typically has a full campground March through October.
- ♦ We assisted Tooele, Juab and Utah County with the implementation of the Prospector Backcountry OHV trail system. This included marking nearly 500 miles of motorized trails and the installation of information kiosks at trail system entry points. This also included the creation of a side trail system of the Prospector, known as the Chief Tintic OHV Trail system.
- ♦ Roads traveling through Snow Canyon State Park were repaved and widened improving the opportunities and safety of bicyclists and other visitors who frequent the park. The paving renovation also included new asphalt for the campground and day use areas.

Forecast

In 1957, an act of the Utah Legislature created the Utah Division of Parks and Recreation to develop and manage a state park system for the enjoyment of the citizens of this state, the enjoyment of visitors to the state and the protection of scenic and historic sites important to the culture of Utah. Originally, this new park system included five parks.

In the 60 years hence, the system has grown to 43 state parks and historic sites. As we look to the future, we see a real need to upgrade our facilities and offerings to accommodate the ever increasing crowds. Too many of our parks are at capacity every weekend, and people have to be turned away. Overcrowding at many of our parks has also diminished the visitor experience.

We feel a need to expand our existing parks to make it possible for more people to have a quality recreational experience therein. We will be undertaking an initiative to improve existing facilities to accommodate the larger crowds. We will develop new and larger facilities where appropriate, and we will be looking for areas for strategic expansion of our parks. At the same time, we will continually look to add new recreational opportunities and programs to keep pace with public demand as we strive to be on the forefront of innovation in outdoor recreation.

Key Services

Recreational Trails Program

The federally-funded Recreational Trails Program (RTP) has helped with non-motorized and motorized trail development and maintenance, trail educational programs and trail related environmental protection projects. This programs funds provide coordination, technical assistance and maintenance of statewide trail projects on a 50/50 sponsor match.

State Boating Program

Administers the State Boating Act to regulate and promote safety, education, facilities, search and rescue and boating enforcement on Utah's waterways.

43 Utah State Parks

Manages Utah's state park system which includes operations, planning, administration and protection of 43 heritage, scenic and recreation parks.

Planning

Guides short and long-term site management to protect and interpret each park's natural and cultural resource base, ensure safe and enjoyable visitor experiences, provide for new visitor opportunities and develop and enhance facilities to meet visitor needs.

Off-Highway Vehicles

Administers summer and winter off-highway vehicle programs, including education, trail maintenance, grant programs, user compliance, accident investigation and search and rescue.

Grant Program

Administers Land and Water Conservation Fund and non-motorized and motorized trails grant programs as well as the Boating Access and Clean Water Act grants.

Division of Parks and Recreation Board



L to R: Kevin Christensen, Kimberly Schappert, Corey Cram, Claudia Jarrett, Jaren Davis, Lesha Coltharp (not pictured, Doug Thompson and Russell Steadman)

Doug Thompson, Chair

Box Elder, Cache, and Rich counties

Bob Murri, Vice Chair

Davis, Morgan, and Weber counties

Kevin Christensen

Kane, Garfield, Piute, Sevier, Sanpete, and Wayne counties

Lesha Coltharp

Uintah, Daggett, and Duchesne counties

Corey Cram

Beaver, Iron, and Washington counties

Claudia Jarrett

State-at-Large

Kimberly Schappert

Emery, Carbon, Grand, and San Juan counties

Ryan Starks

Utah, Juab, Wasatch, and Millard counties

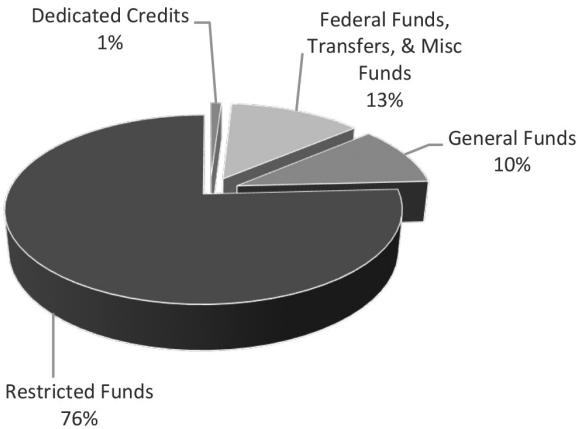
Russell Steadman

Salt Lake, Tooele, and Summit counties

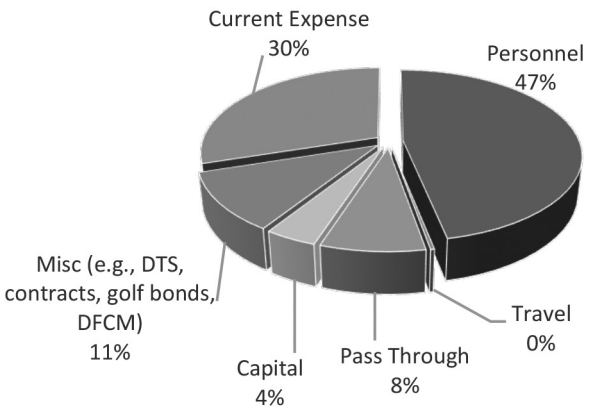
Financials

**Fiscal Year Ending
June 30, 2017**
(Unaudited)

Revenue
\$44,357,507



Expenditures
\$38,732,696



Utah Division of Water Resources (DWRe)

Mission Statement

"The Division of Water Resources plans, conserves, develops and protects Utah's water resources."



Blanket drain on the right abutment of Browne Dam.

Utah Division of Water Resources



1594 W. North Temple, Suite 310
PO Box 146201
Salt Lake City, UT 84114-6201
801-538-7230
801-538-7279 (fax)
water.utah.gov

Executive Team



L to R: Joel Williams, Eric Millis, Joshua Palmer, Todd Adams, Barbara Allen, Jim Egbert

Eric Millis — Director

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Todd Adams — Deputy Director

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Joel Williams — Assistant Director

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Barbara Allen — Administrative Secretary

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Joshua Palmer — WE3 Section Manager

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jpalmer@utah.gov

Jim Egbert — Budget Officer

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jimegbert@utah.gov

Online Resources

Water Conservation:

conservewater.utah.gov

Facebook:

facebook.com/conserveutahwater

Twitter:

[@UTAHSavesH2O](https://twitter.com/UTAHSavesH2O)

Director's Commitment

In 1967, the year the Utah Legislature created the Department of Natural Resources, Utah had a statewide population of one million people. Today, we've eclipsed three million and are expected to double our population in the next 40 to 45 years. As in years past, Utah's water future is one of the largest challenges today facing the state. It's vital that we find the appropriate balance to ensure Utah families have reliable water; that agriculture and businesses can be successful, and that the environment can flourish.

We are excited about the progress that has been made in water conservation. We are crunching the numbers and think Utahns will reach the Governor's 25 percent water conservation goal well ahead of schedule; however, water conservation will not end once we reach this goal. On the contrary, we are developing Water Conservation 2.0. New goals will be set, both regionally and statewide, and we will be more dedicated than ever.

Utah's population is flourishing. The children of people who live here now and grandchildren of those of us already living here will likely want to call Utah home. That being said, new people don't bring water with them. Our division is dedicated to helping ensure existing resources are used more efficiently, that appropriate transfers are made and that needed projects are completed.

All Utahns can be part of the solution. We encourage parents to sit down with their children to talk about responsible water use. We encourage homeowners, businesses and farmers to implement practices to become more water efficient. We encourage water suppliers to maintain their systems and to keep accurate water use and supply data. These efforts help all of us, and we should all be part of the solution.



Eric Millis
Director

Division Accomplishments

- ♦ We have implemented a new water-use report tool called Hall of Fame or Shame. That allows Utahns to report water-wise use or abuse. We have established a Hall of Fame contest where Utahns can show off their water-wise landscapes and practices and be entered to win a \$50 Home Depot gift card. At the end of season, monthly winners will also be entered to win a \$500 gift card.

- ♦ In December 2016, the Utah Board of Water Resources launched a program to utilize its funds to make secondary water metering a higher priority. It established a secondary water meter funding program at a reduced interest rate.
- ♦ The division received \$750,000 from the Utah Legislature ongoing for water-efficiency device rebates that will be distributed throughout the state. An additional \$700,000 was received specifically for smart timers.
- ♦ The division has collaboratively worked with other state agencies and DNR divisions to address challenges presented in the 2015 Legislative Audit. We are continuing to make progress to improve data gathering and quality.
- ♦ The division is actively working to increase public transparency. We are continuing to live stream the Board of Water Resources meetings, these are available on the DNR YouTube channel.
- ♦ The division uses social media platforms to help promote water efficiency efforts that include: advertising our H2Oath: Utah's Water Wise Pledge, Weekly Lawn Watering Guide, Hall of Fame or Shame and the new Slow the Flow Facebook page where we share ways to save water and statewide success stories.
- ♦ The division continues to work on providing required documentation to the Federal Energy Regulatory Commission so they can prepare the draft EIS for the Lake Powell Pipeline.
- ♦ The Board of Water Resources loaned \$6.1 million for 9 projects, all of which improved efficiency for agricultural or municipal systems. The Board also granted \$9.8 million for 3 dam safety projects. Dam safety projects included: Mill-site Dam, Silver Lake Dam, and Tibblefork Dam.

Forecast

- ♦ The number one long-term challenge facing the division, and Utah water in general, is the growth Utah is expected to experience. Our current population is projected to double, resulting in a population of nearly six million people by 2065.
- ♦ Utah is in a 17-year drought, with only a few outlier years in between. The combination of an increasing population with less snowpack and precipitation is a significant challenge.
- ♦ Efficiencies alone will not be enough to conserve significantly beyond the 25 percent goal. Changes in policies, landscapes and technology will be vital to progress.
- ♦ Secondary water metering and water conservation are important to current and future water conservation efforts. Resources are needed to cover the cost of secondary water meter installations.
- ♦ There will be an increase in multi-state interactions involving the Bear and Colorado rivers.



June 2017, Slow the Flow rebranding kick-off event.

Key Services

Water Education and Conservation

DWRe is working with local water agencies, individuals, and professional groups to develop and implement water conservation programs to reduce per capita water use in Utah by at least 25 percent before 2025. We have developed and distributed water education instructional materials to teachers and students in Utah's public schools.

Water Development and Conservation Funds

The Board of Water Resources administers three state water development and conservation funds.

Technical Assistance

The Division (DWRe) provides technical water development and planning assistance to Utah water users.

Water Planning

DWRe maintains the State Water Plan, which describes Utah's current and long-term water related needs, inventories municipal and industrial water use and water-related land use, and performs water use studies.

Computer Applications

DWRe develops geographic information system applications, water demand/supply, and hydrologic models.

Interstate Streams

The Director is Utah's interstate streams commissioner, helping defend and protect Utah's right to develop and use its entitlements in the Colorado, Bear, and Columbia rivers.

Cloud Seeding

DWRe promotes cloud seeding to augment the natural precipitation and enhance snow pack.



L to R back row: Charles Holmgren, H. Blaine Ipson, Randy Crozier, Kyle Stephens, Eric Millis; L to R front row: Juliette Tennert, Norman L. Johnson, Jim Lemmon, Steve Farrell

Board of Water Resources

Steve Farrell, Chair

Provo River District
Juab, Utah and Wasatch Counties

Charles Holmgren, Vice Chair

Bear River District
Box Elder, Cache and Rich Counties

Randy Crozier

Green River District
Daggett, Duchesne and Uintah Counties

Jim Lemmon

Lower Colorado River District
Beaver, Garfield, Iron, Washington and Kane Counties

Juliette Tennert

Salt Lake and Tooele Counties

H. Blaine Ipson

Sevier River District
Millard, Sanpete, Sevier, Piute and Wayne Counties

Norman L. Johnson

Upper Colorado River District
Carbon, Emery, Grand and San Jose Counties

Kyle Stephens

Weber River District
Weber, Davis, Morgan and Summit Counties

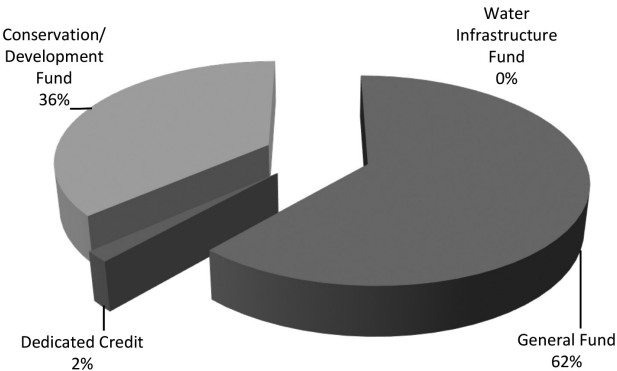
Eric Millis

Division Director

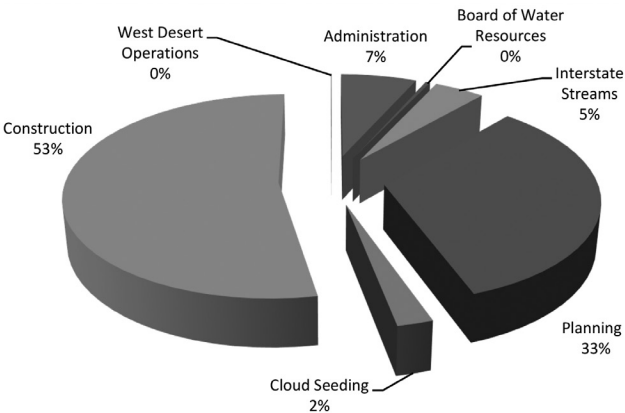
Financials

Fiscal Year Ending
June 30, 2017
(Unaudited)

Revenue
\$8,654,400



Expenditures
\$8,654,400



Utah Division of Water Rights (DWRI)

Mission Statement

"The Division of Water Rights promotes order and certainty in administering the beneficial use of Utah's water."



Atwood Dam inspection in the High Uintahs with engineer, Everett Taylor.

Utah Division of Water Rights



1594 W. North Temple, Suite 220
PO Box 146300
Salt Lake City, UT 84114-6300
801-538-7240
801-538-7467 (fax)
waterrights.utah.gov

Executive Team



L to R back row: Teresa Wilhelmsen, Dave Marble, Blake Bingham, Jared Manning, Boyd Clayton, Marianne Burbidge, James Greer; L to R front row: Kent Jones, Tom Upton

Kent Jones — State Engineer/Director
801-538-7371 kentljones@utah.gov

Boyd Clayton — Deputy State Engineer
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Jared Manning — Assistant State Engineer/Field Services
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Teresa Wilhelmsen — Assistant State Engineer/
Applications & Records
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David Marble — Assistant State Engineer/Dam Safety
801-538-7376 davemarble@utah.gov

James Greer — Assistant State Engineer/Technical Services
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Tom Upton — Financial Manager
801-538-7423 tomupton@utah.gov

Blake Bingham — Assistant State Engineer/Adjudication
801-538-7345 blakebingham@utah.gov

Marianne Burbidge — Admin. Secretary/Legislative Liaison
801-538-7370 marianneburbidge@utah.gov

Regional Offices

Northern Regional Office

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willatkin@utah.gov

Weber/Western Regional Office

Michael Drake, Regional Engineer
1594 W. North Temple, Suite 220 / PO Box 146300
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801-538-7240
michaeldrake@utah.gov

Utah Lake/Jordan River Regional Office

Ross Hansen, Regional Engineer
1594 W. North Temple, Suite 220 / PO Box 146300
Salt Lake City, UT 84114-6300
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Kirk Forbush, Regional Engineer
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Southwestern Regional Office

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Southeastern Regional Office

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marcstilson@utah.gov

Eastern Regional Office

Bob Leake, Regional Engineer
318 North Vernal Avenue
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435-247-1514
bobleake@utah.gov

Online Resources

Website

waterrights.utah.gov

Facebook

facebook.com/utahwaterrights

Director's Commitment

"Future Infrastructure and Opportunity Requires Our Attention Today."

One hundred and twenty years ago, the first Utah State Engineer was appointed. Some of the main responsibilities were to teach water users how to accurately measure the amounts of water they were using and how to properly divide the waters in the state to assure that water was being properly delivered to those entitled to use it. Thanks to the foresight of our predecessors, valuable data has been collected and evaluated. So it is today.

We continue in the efforts to measure and record water use information. We are in desperate need of real time monitoring of diversions and accurate records of use so that we can continue to evaluate our resources to meet the increasing demands on our limited water supply. In addition, current adjudication efforts will greatly benefit the state as we identify specific limits of rights and make determinations of available beneficially used water to help determine what will be available for future growth. Increased efforts in monitoring, recording, and adjudicating water usage and rights must continue if we are to successfully understand and meet our future demands.



Kent Jones
State Engineer/Division Director

Division Accomplishments

- ♦ Legislation session passed nine water bills with significant influence on future course.
- ♦ Legislative directive to inventory open canals completed.
- ♦ Implemented Adjudication legislative changes intended to improve water user participation and focus resources on active claims, which have streamlined adjudication.
- ♦ Water Users noticed and public meetings held to commence five Proposed Determination books.
- ♦ In the Utah Lake Jordan River (ULJR) the Special Master resolved 71 objections and has sent notice on all outstanding objections.

- ◆ Division has implemented program to review water use reports for public water suppliers and the Division met with 372 suppliers for 2017 calendar year.
- ◆ Implemented online distribution models for Price River.
- ◆ Signed agreement settling Bryce Canyon National Park reserved water rights.
- ◆ Water Commissioner Fund transferred to state managed account.



Blue Lake in inclement weather preparing the Outlet Camera to inspect Outlet Conduit.

Action on applications in FY2017 was as follows:

<u>Filed</u>	<u>Action</u>	<u>Type</u>
280	290	Applications to Appropriate
935	1078	Change Applications
90	109	Exchange Applications
354	263	Nonuse Applications
1007	995	Extension Requests
734	482	Certificates of Beneficial Use
274	276	Stream Alterations
2496	2454	Reports of Conveyance
258	258	Dam Safety Inspections
35	17	Enforcement Referrals
<hr/>		
6463	6222	TOTALS

Key Services

Water Right Applications

Process water right applications and maintain permanent records for all water rights in state. Assist the public to access water right information and complete application forms required by the agency.

Distribution and Measurement of Water

Oversee water commissioners and provide support where the agency is directly involved in the daily distribution of water among water right holders.

Adjudication

Present to the district court a proposed determination of water rights within hydrologic areas of the state where such investigations have been ordered by the court and obtain an adjudication order decreeing those water rights.

Dam Safety

Physically inspect and monitor operation of public and private dams, approve new dam construction, consult and approve dam upgrades and intervene in emergencies. Inspections and monitoring efforts are based on each dam's hazard rating for potential loss of life and property.

Stream Channel Alterations

Process permits to alter the banks or beds of natural streams under terms of the Utah Code and a general permit from the US Army Corps of Engineers.

Geothermal

Process permits to use geothermal resources in the state. Inspect facilities and monitor pressure tests.



Measurements by hand to calibrate the meter in Sheley Tunnel, Moab, Utah. Engineers, Sue Odekirk and Dave Horsley.

Well Drilling Regulations and Licensing

Oversee licensing and regulation of water well drillers in the state.

Studies and Technical Services

Collect water resources data for surface, groundwater and use of water throughout the state. Perform studies to determine water availability and management alternatives. Support the integration of data automation technology in operations of the agency.

Enforcement

Administer the Division's water rights, dam safety and stream alteration enforcement program as authorized by statute and administrative rule. Investigate violations of Utah water right law and initiate actions which encourage compliance.

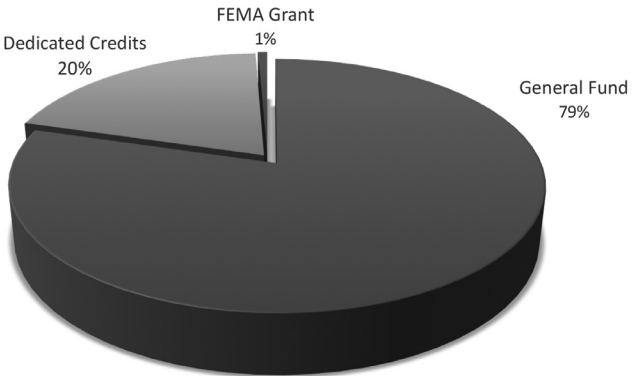


Running a camera down a well casing to determine the characteristics of well casing. Environmental Scientist, Jim Goddard.

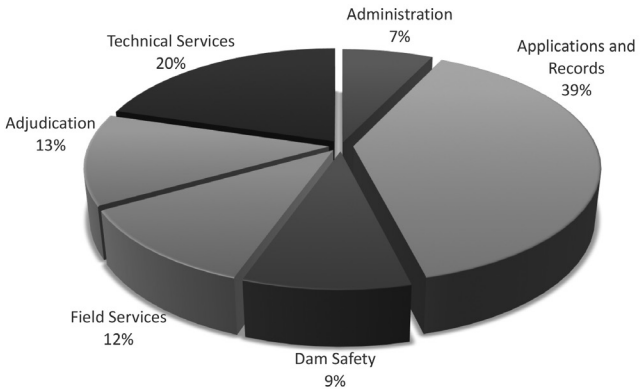
Financials

**Fiscal Year Ending
June 30, 2017**
(Unaudited)

**Revenue
\$11,217,000**



**Expenditures
\$10,753,000**



Utah Division of Wildlife Resources (DWR)

Mission Statement

"The Division of Wildlife Resources serves the people of Utah as trustee and guardian of the state's wildlife."



*Utah enjoyed another successful deer hunt in the fall of 2016. Bucks were plentiful, and hunters were excited about the animals they harvested.
Photo: Jim Shuler*

Utah Division of Wildlife Resources



1594 West North Temple, Suite 2110
PO Box 146301
Salt Lake City, Utah 84114-6301
801-538-4700
801-533-4709 (fax)
wildlife.utah.gov

Executive Team



*L to R: Thu Vo-Wood, Rory Reynolds, Mike Fowlks, Robin Cahoon,
Mike Canning (not pictured, Ben Nadolski or Bill Bates)*

Mike Fowlks — Director

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Rory Reynolds — Assistant Director

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Bill Bates — Assistant Director

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Ben Nadolski — Policy Analyst/Legislative Liaison

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Robin Cahoon — Conservation Outreach Section Chief

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Thu Vo-Wood — Administrative Assistant

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Regional Offices

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Northeastern Region

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Boyde Blackwell, Regional Supervisor
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Northern Region

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Ogden, UT 84405
Justin Dolling, Regional Supervisor
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Southeastern Region

319 N Carbonville Road, Suite A
Price, UT 84501
Chris Wood, Regional Supervisor
435-613-3700

Southern Region

1470 N Airport Road
Cedar City, UT 84721
Kevin Bunnell, Regional Supervisor
435-865-6100

Washington County Field Office

451 N SR-318
Hurricane, UT 84737
435-879-8694



The Flaming Gorge fishery produces healthy trophy-sized fish. This lake trout was caught and released during a population survey in the spring of 2017. Photo: Ryan Mosley

Online Resources

News and information

wildlife.utah.gov/wildlife-news.html

Calendar of events

wildlife.utah.gov/calendar

Fishing reports

wildlife.utah.gov/hotspots

Hunting maps

wildlife.utah.gov/maps

Utah hunting and fishing mobile app

wildlife.utah.gov/mobileapp

Turn in a Poacher

wildlife.utah.gov/report-a-poacher.html

STD of the Sea (mussel decontamination)

stdofthesea.com

Utah's Wildlife Action Plan

wildlife.utah.gov/learn-more/wap2015.html

Facebook

facebook.com/UtahDWR

Twitter

twitter.com/UtahDWR

Instagram

instagram.com/UtahDWR

YouTube

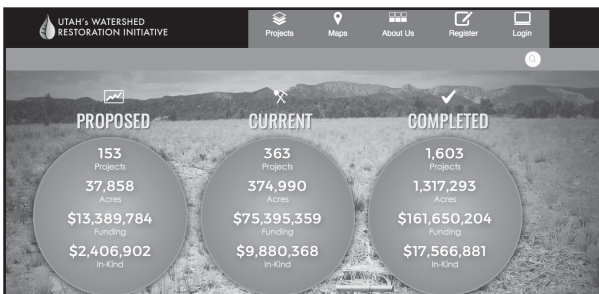
youtube.com/user/UDWR

Pinterest

pinterest.com/utahdwr

DWR blog

wildlife.utah.gov/blog



The Division works closely with its partners in Utah's Watershed Restoration Initiative to restore wildlife habitat. Since 2006, the initiative has rehabilitated and restored more than 1.3 million acres. Projects are always underway, and you can view them in detail at wri.utah.gov.

Director's Commitment

I am excited and humbled at the opportunity to serve as the Division's new director, and I share my predecessor's commitment to active, hands-on management of our wildlife resources. I truly believe that this is the only way to maintain thriving and robust wildlife populations.

In Utah, we are embarking on a new era of research and discovery that focuses on the migration and habitat needs of our wildlife. This information will help us make better-informed decisions based on sound science. As we gather and analyze the data, we can work to reduce human-wildlife conflicts — such as wildlife-vehicle collisions — and proactively improve habitat. It will also help us more effectively partner with neighboring states on management decisions as we track the movement of species across state lines.

Partnerships are critically important to the Division. We partner with a host of stakeholders to get consensus on management decisions and to conduct on-the-ground projects, research and data collection. On our own, we do not have sufficient resources to do all that is necessary for Utah's wildlife. Partnerships allow us to carry out important initiatives through additional funding, volunteer work and expanded outreach to the general public.

Strong partnerships have helped Utah build the most effective and long-term successful watershed restoration program in the country. We have also saved hundreds of thousands of dollars through our Dedicated Hunter program, which puts volunteers to work on a variety of projects that benefit wildlife.

We are using technology to improve hunters' and anglers' experiences and to provide efficient, simple license and permit delivery systems. We have developed a licensing app that has nearly 200,000 downloads. It offers easy access to license and permit information, hunting and fishing updates and a host of other benefits.

Our customers can easily apply for permits and obtain their licenses online. We also leverage the latest mapping technologies to provide the public with up-to-date boundary information and fishing hotspot locations.

Utah's wildlife is in a good place as we head into the future. Many species' populations are on the rise, and we hear success stories from Utahns every day. While challenges still

exist, we are poised to handle them and excited to build partnerships that keep Utah's wildlife thriving.



Mike Fowlks
Division Director

Division Accomplishments

Some of our key accomplishments over the past year include:

- ♦ Completing warmwater hatcheries at our Springville office and the Lee Kay Center. These facilities will allow us to grow sterile walleyes, wipers, tiger muskies and other warmwater species important to anglers.
- ♦ Continuing our big game research projects to learn more about the survival and growth of Utah's big game populations. With the information we're learning, we can modify management efforts and improve hunter satisfaction.
- ♦ Launching a new statewide wildlife migration initiative that will help us better understand the movements and migration routes of wildlife in Utah. We can then improve the management of many migratory species and their habitats across geographic barriers and boundaries.
- ♦ Working with our partners in Utah's Watershed Restoration Initiative to restore wildlife habitat. Since 2006, the initiative has rehabilitated and restored more than 1.3 million acres.
- ♦ Breaking ground on the new George S. and Dolores Doré Eccles Wildlife Education Center in Farmington. Scheduled for completion in 2018, the center will help educate visitors about Utah wildlife conservation as well as the many species that live in the wetlands around the Great Salt Lake.
- ♦ Improving customer satisfaction by making licenses, permits and information easily accessible via the latest technologies. To date, our Utah Hunting and Fishing app has been downloaded nearly 200,000 times.



The completion of two warmwater fish hatcheries has allowed the Division to produce tiger muskies, wipers, sterile walleye and other warmwater species. These tanks hold the fertilized eggs until the fish hatch and start to grow. Photo: Scott Root



The Division works closely with sportsmen's groups and other conservation partners to install guzzlers for a variety of wildlife species. Guzzlers help provide essential water to wildlife in Utah's driest areas. As of June 2017, there were nearly 900 guzzlers across the state. Photo: Morgan Jacobsen

Forecast

During the next fiscal year, we will continue proactively address the following issues:

- ♦ Taking an active, hands-on approach in managing and enhancing the state's fish and wildlife populations for the benefit of all Utahns.
- ♦ Using the big game research and migration data we're collecting to work with other stakeholders in reducing or mitigating migration barriers.
- ♦ Rehabilitating landscapes burned by wildfires and continuing our proactive restoration of wildlife habitat and watersheds.
- ♦ Battling against invasive species — including quagga mussels and phragmites — that pose threats to Utah's wildlife and economic interests.
- ♦ Focusing on targeted, effective conservation efforts that will help prevent listings under the Endangered Species Act.
- ♦ Building and strengthening partnerships with any individual or organization that will commit their time and other resources to benefit wildlife or expand recreational opportunity.
- ♦ Exploring and implementing new technologies that improve our ability to communicate with our customers and garner their support for future wildlife management.



In September 2016, the Division and its partners held a groundbreaking ceremony for the new George S. and Dolores Doré Eccles Wildlife Education Center in Farmington. The center will help educate visitors about wildlife conservation and the species that rely on the Great Salt Lake. Artist's rendering: Van Lewis, Method Studio Inc.

Key Services

Certificates of Registration

Issues licenses and certificates of registration to falconers, private pond owners and people who want to own exotic pets.

Community Fisheries Program

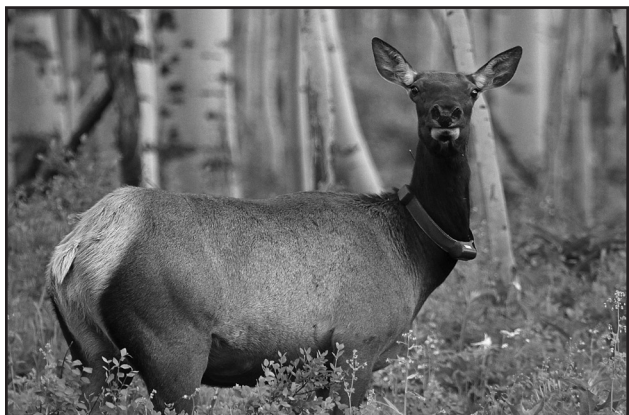
Partners with local governments to provide urban and community fishing opportunities for Utah youth and families.

Dedicated Hunter Program

Provides additional hunting opportunities for Utah deer hunters who perform volunteer service benefiting wildlife.

Fisheries Experiment Station

Monitors Utah's wild fish populations and the Division's fish hatcheries. Provides hatcheries with disease assessment and treatments.



Division biologists have put tracking collars on numerous animals, including this cow elk, to learn more about population survival, growth and migration. The Division partners with local universities on multiple research projects. Photo: Jim Shuler

Great Basin Research Center and Seed Warehouse

Conducts rangeland-rehabilitation research. Also stores, mixes and distributes seed for habitat-restoration projects.

Hatcheries

Owns and operates Utah's state fish hatcheries.

Hunter Education

Trains individuals in the safe handling of firearms. The Lee Kay Center for Hunter Education (801-972-1326) and the Cache Valley Hunter Education Center (435-753-4600) provide Hunter Education courses and public shooting ranges.

Licenses

Sells hunting and fishing licenses.

Natural Heritage Program

Identifies and monitors sensitive plant and animal species, and maintains a database for making natural resource decisions.

Publications

Creates publications that provide news and information to constituents. Also publishes guidebooks that summarize hunting, fishing and trapping regulations.

Website (*wildlife.utah.gov*)

Provides many online services and tools. Customers can buy hunting and fishing licenses, and use Web tools to obtain a wealth of information about Utah's wildlife.

Wildlife Recreation Program

Offers the public many opportunities for hands-on experiences with different forms of wildlife-related recreation, including hunting, fishing, wildlife watching, shooting and more.



Human safety is a priority for the Division. Biologists and conservation officers often relocate moose, mountain lions and bears to ensure the safety of people, pets and livestock. Photo: Steve Gray

Utah Wildlife Board



Board members L to R: Byron Bateman, Kirk Woodward, Calvin Crandall, Donnie Hunter, Steve Dalton, Karl Hirst, Kevin Albrecht and Mike Fowlks

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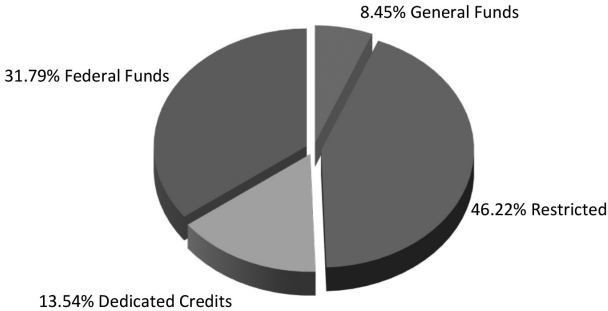


Over the past year, the division launched a new migration initiative. As biologists better understand the movements and migration routes of wildlife in Utah, they can improve the division's management of many species and their habitats. The division has already collected substantial wildlife migration data and is excited to begin analyzing and sharing its findings.
Photo: Jim Shuler

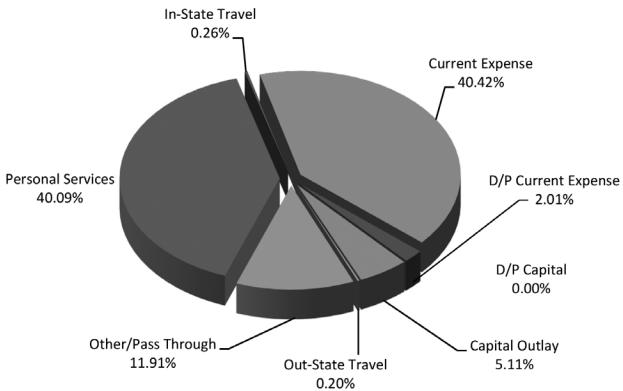
Financials

**Fiscal Year Ending
June 30, 2017
(Unaudited)**

Revenue \$94,436,364



Expenditures \$94,436,364



Habitat Council Spending by Program (Category)

Waterfowl	\$133,483	4.88%
Upland Game	\$317,157	11.60%
Big Game	\$1,296,022	47.39%
Non-Game Terrestrial	\$27,605	1.01%
Sportfish	\$838,174	30.65%
Non-Game Fish	\$122,401	4.48%
	\$2,734,842	100.00%

Utah Geological Survey (UGS)

Mission Statement:

“The Utah Geological Survey provides timely scientific information about Utah’s geologic environment, resources, and hazards.”



The UGS is assisting with a Department of Energy project known as FORGE, which will develop new technologies for geothermal power generation. Two sites, Milford, Utah (in photo), and Fallon, Nevada, are vying to be selected for a five-year field laboratory to test and develop these technologies.

Utah Geological Survey



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801-537-3400 (fax)
geology.utah.gov

Executive Team



L to R: Steve Bowman, Grant Willis, Michael Hylland, Pam Perri, Michael Vanden Berg, Jodi Patterson, Hugh Hurlow, Rick Allis

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Michael Vanden Berg — Energy and Minerals
Program Manager
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Grant Willis — Geologic Mapping Program Manager
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Regional Office

Southern Utah Regional Office

646 North Main

Cedar City, UT 84721

435-865-9036

Online Resources

Website

geology.utah.gov

Natural Resources Map & Bookstore

mapstore.utah.gov

Utah Geological Survey Library

geology.utah.gov/library

Blog

geology.utah.gov/blog

Facebook

facebook.com/UTGeologicalSurvey

Twitter

twitter.com/utahgeological

LinkedIn

linkedin.com/company/utah-geological-survey



Geologists from the UGS Energy and Minerals Program measure the thickness of the salt crust on the north arm of Great Salt Lake. Understanding the balance between dissolved and precipitated salt is important for effective management of the lake's ecology and industry.

Director's Commitment

The Utah Geological Survey assists government, industry, and the general public by gathering, interpreting, and publishing geologic information. Our goal is to see that geologic information is used in making wise land-use decisions. Knowledge of the location of Utah's geologic commodities, including groundwater and geologic hazards are essential inputs to local and statewide plans incorporating likely future resource development, urban growth and infrastructure expansion. A critical component of UGS work is maximizing accessibility to geologic information. This year we expanded our web capabilities to meet the growing need to remotely access data, publications and maps. Website use continues to increase as more information is uploaded to our site, with now 1.2 million web page visits per year. The UGS will continue to pursue opportunities to apply new technologies to meet the needs of a growing state.



Rick Allis
State Geologist/Director

Division Accomplishments

- ◆ Published *Major Oil Plays in Utah and Vicinity* (UGS Bulletin 137), the culmination of many years of research and certain to be an invaluable source of information for petroleum companies, government officials, regulators and others interested in Utah's petroleum resources.
- ◆ Completed major groundwater studies for Goshen Valley and Ogden Valley, including development of innovative techniques for recharge and discharge estimates that can eventually be applied statewide.
- ◆ Released nine new detailed geologic maps of various parts of the state, and several major paleontology and geology publications related to some of Utah's most important dinosaur fossils.
- ◆ Completed a major project of mapping wetlands along the southern and eastern shorelines of Great Salt Lake, which will aid water managers in making scientifically informed decisions for this environmentally sensitive area.
- ◆ With numerous partners, the division acquired over 3,300 square miles of high-resolution lidar data, which is being used to develop detailed geologic and geologic-hazard maps in Utah's rapidly growing urban areas.

- ♦ Created a 3D interactive geologic map web portal (geology.utah.gov/apps/intgeomap), which helps people visualize and better understand the relationship between geology and the landscape.



UGS geologists use high-precision GPS equipment to monitor landslide movement as part of the Geologic Hazards Program's role in emergency response. Landslide-susceptibility mapping and sound land-use decisions prior to development can mitigate costly future damage.

Forecast

- ♦ Stabilize staffing at about the present level after the large reduction two years ago. A recent funding threat is the possibility of large-scale reductions in federal programs. To withstand short-term fluctuations in non-General Funds, the UGS needs to rebuild non-lapsing Mineral Lease carry-forward to more than \$1 million.
- ♦ Review mission priorities in relation to the recent reductions in staff expertise and attempt to fill critical gaps as retirements and funding levels provide opportunities.
- ♦ Develop and publish uniform comprehensive geologic-hazard map sets that will aid Utah local governments and others in managing growth while protecting their citizens.
- ♦ Improve understanding of Utah's geothermal resources and help develop innovative technologies and processes to capitalize on Utah's abundant geothermal energy potential.
- ♦ Assist research into the ability of Utah's deep geologic reservoirs to safely sequester waste fluids from the extractive industries.
- ♦ Clarify Utah's groundwater potential and assist the State Engineer to sustainably develop these resources.

Key Services

Utah Core Research Center (UCRC)

The UCRC serves as a repository and laboratory for Utah well cuttings and core, providing petroleum, coal, and geologic samples for industry and academic research as well as public education.

Geologic-Hazard Assistance

The Geologic Hazards Program assists governments in responding to geologic-hazard emergencies, reviews geologic-hazard reports for school districts, investigates geologic hazards and prepares geologic-hazard maps for use by local governments, consultants and the public.

Natural Resources Map and Bookstore

In addition to offering a selection of publications and maps on Utah geology and other natural resource topics, the bookstore is the only retail outlet that maintains an inventory of topographic maps for the entire state of Utah.

Water Resource/Environmental Evaluations

The Groundwater Program evaluates groundwater resources and protects drinking-water supplies by investigating the environmental impacts of waste disposal, storage, and treatment facilities for local, state and federal agencies.

Public Inquiry

The Geologic Information and Outreach Program provides information on Utah geology and geologic issues to governments, industry, educators and the general public.

Energy and Mineral Evaluations

Geologists specializing in Utah's various energy resources and minerals investigate and provide energy and mineral resource information on county, state, or federal lands to local, state and federal agencies.

Paleontological Services

The Paleontology Section evaluates paleontological sites, excavates critical fossils in danger of destruction and issues paleontological excavation permits.



The UGS recently acquired a large and scientifically significant collection of drill core from wells in Utah's largest oil field. The new core from Greater Aneth field adds to the Utah Core Research Center's value as a premier research and educational facility.

Board of the Utah Geological Survey



L to R: Ken Fleck, Rick Chesnut, Elissa Richards, Dave Garbrecht, Pete Kilbourne, Marc Eckels, Sam Quigley (not pictured, David Ure)

Marc Eckels, Chair
Minerals (Hydrocarbons)

Rick Chesnut
Engineering Geology

Ken Fleck
Minerals (Coal)

Dave Garbrecht
Minerals (Metals)

Pete Kilbourne
Scientific Interests

Sam Quigley
Minerals (Industrial)

Elissa Richards
Public-at-large

David Ure
Ex-officio

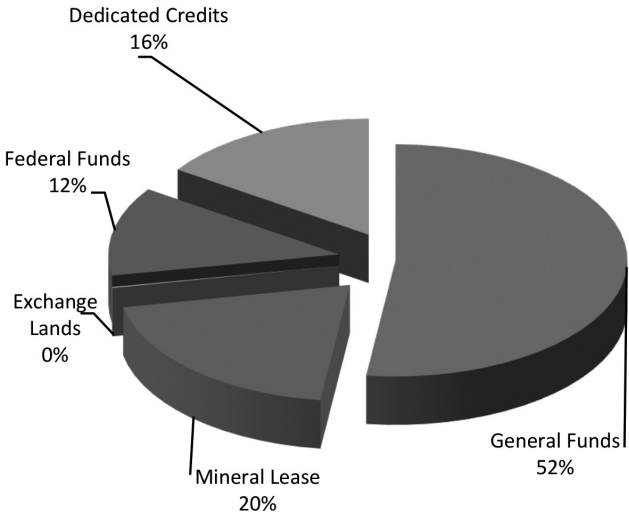


Students learn about sediment deposition and erosion in a hands-on activity at Earth Science Week. About 700 students typically attend this annual event organized by the UGS Geologic Information and Outreach Program.

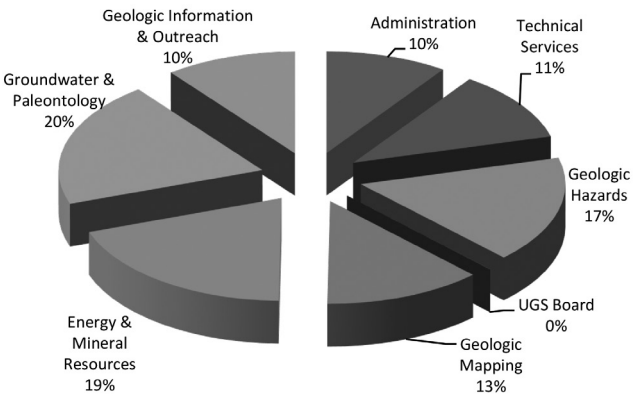
Financials

**Fiscal Year Ending
June 30, 2017**
(Unaudited)

Revenue
\$7,673,878



Expenditures
\$7,673,878



Utah Department of Natural Resources
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Salt Lake City, Utah 84114-5610

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